

*If you are using a printed copy of this procedure, and not the on-screen version, then you **MUST** make sure the dates at the bottom of the printed copy and the on-screen version match.
The on-screen version of the Collider-Accelerator Department Procedure is the Official Version.
Hard copies of all signed, official, C-A Operating Procedures are kept on file in the C-A ESHQ Training Office, Bldg. 911A.*

C-A OPERATIONS PROCEDURES MANUAL

12.61 Setting the Tandem Facility Perimeter

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Hand Processed Changes

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Approved: _____ ***Signature on File*** _____
Collider-Accelerator Department Chairman Date

C. Carlson

12.61 Setting the Tandem Facility Perimeter

1. Purpose

The purpose of this procedure is to define the activities required to set the Access Control System for TVDG operation with deuterium (light ions).

2. Responsibilities

- 2.1 It is the responsibility of the person or persons executing this procedure to observe all safety rules.
- 2.2 It is the responsibility of anyone executing this procedure to carefully inspect all areas for personnel.

3. Prerequisites

- 3.1 The Light Ion Access Control System testing must be current.
- 3.2 The TVDG Radiation Safety System testing must be current.

4. Precautions

- 4.1 All zones to be carefully swept.

5. Procedure

Check

- ____ 5.1 **MP6 Basement to Mechanical Equipment Room** - This location to be secured from the MP6 pit area. The passage way door to the ladder ascending to the M.E. Room to be closed and station (ST23) pushbutton to be depressed (lamp will flash). Using Gate Reset Key, reset the Access Control Panel. Exit passage way, after passing light beam depress (ST21), (lamp will be on indicating area secured).
- ____ 5.2 **MP6 Shielding Door** - Close the MP6 Shielding Door and use the Gate Reset Key to reset the Access Control Panel.
- ____ 5.3 **Electrical Equipment Room** - Enter the passage way form the EE room to MP6, MP7 pit. Insure the gate is locked, then depress the station pushbutton (lamp will flash). Using Gate Reset Key, reset the Access Control Panel. Exit the EE room door, making sure it is closed, and depress the (ST) pushbutton securing this area.

- _____ 5.4 **MP7 to Target Room 4 Passageway** - Enter the passageway from MP7 HE area and proceed to the passage door to TR4. Make sure this door is locked from TR4 and closed. Depress (ST24) pushbutton (lamp will flash), and using the Gate Reset Key, reset the Access Control Panel. Exit passage way closing the door into the MP7 HE area and depress (ST25), (lamp will be on indicating area secured).
- _____ 5.5 **TtB Gate** - ***All TtB Zones must be set prior as per [C-A-OPM-ATT 12.24.a](#)***
The TtB gate to be closed and Gate pushbutton depressed (lamp on indicating gate is closed). Using Gate Reset Key, reset the Access Control Panel.
- _____ 5.6 **MP7 to Control Room Shielding Door** - ***ALL Accelerator Room Zones (as per [C-A-OPM-ATT 12.15.a](#)) must be set when the Shielding Door is Closed***.
Upon completion of the MP7 LE zone sweep close the shielding door. Depress (ST29) pushbutton securing the MP7 LE zone. After verifying on the Control Room Radiation Safety System display panel that all Zones are set, use the Gate Reset Key to reset the Access Control Panel.

6. Documentation

None

7. References

- 7.1 [C-A-OPM-ATT 12.15.a, "Setting Tandem Facility Radiation Zones – CHECKLIST"](#).
- 7.2 [C-A-OPM-ATT 12.24.a, "Setting TtB Radiation Zones – CHECKLIST"](#).

8. Attachments

None